

CLAIMS

WHAT IS CLAIMED IS:

5 *Sub a1* 1. A genetically engineered mammalian cell that
has been mutated by a process comprising the insertion
of a recombinantly manipulated polynucleotide sequence
into a gene in said genetically engineered mammalian
cell wherein said gene is identifiable as corresponding
to at least one of SEQ ID NOS: 1-248.

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2. The genetically engineered mammalian cell of
Claim 1, wherein said cell is murine.

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3. A cell according to Claim 2, wherein said cell
is an embryonic stem cell.

4. The genetically engineered mammalian cell of
Claim 1, wherein said polynucleotide sequence is present
on a viral vector.

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5. A cell according to Claim 4, wherein said viral
vector is a retroviral vector.

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6. A cell according to Claim 4, wherein said viral
vector additionally comprises regions of targeting DNA
that facilitate gene targeting by homologous
recombination.

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Sub A2 7. An isolated murine embryonic stem cell line
comprising an engineered retroviral gene trap vector in
at least one gene comprising a polynucleotide sequence
identifiable as corresponding to any one of SEQ ID NOS:
1-248.

8. A method of generating antibodies against a human protein comprising introducing said human protein into a mouse having a genetically engineered mutation in a murine gene identifiable as corresponding to any one of SEQ ID NOS: 1-248, wherein said mouse produces antibodies against said human protein.

Variable	Mean	SD	Min	Max
Age	35.2	12.5	18	65
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	\$25,000	\$50,000		
Health status	Good	Fair		
Exercise frequency	Weekly	Monthly		
Stress level	Low	High		
Sleep quality	Good	Poor		
Dietary habits	Healthy	Unhealthy		
Alcohol consumption	None	Occasional		
Tobacco use	Non-smoker	Smoker		
Family size	2	3		
Work hours	40	50		
Commuting time	30	45		
Home ownership	Renter	Owner		
Neighborhood safety	Safe	Unsafe		
Access to green spaces	Yes	No		
Proximity to public transit	Close	Far		
Local economy	Strong	Weak		
Community engagement	High	Low		
Local government responsiveness	High	Low		
Local infrastructure quality	Good	Poor		
Local environmental quality	Good	Poor		
Local social cohesion	High	Low		
Local cultural diversity	High	Low		
Local economic diversity	High	Low		
Local political participation	High	Low		
Local social capital	High	Low		
Local trust in institutions	High	Low		
Local civic engagement	High	Low		
Local community resilience	High	Low		
Local social support networks	Strong	Weak		
Local mental health resources	Good	Poor		
Local physical health resources	Good	Poor		
Local educational resources	Good	Poor		
Local cultural resources	Good	Poor		
Local economic resources	Good	Poor		
Local political resources	Good	Poor		
Local social resources	Good	Poor		
Local cultural resources	Good	Poor		
Local economic resources	Good	Poor		
Local political resources	Good	Poor		
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Local cultural resources	Good	Poor		
Local economic resources	Good	Poor		
Local political resources	Good	Poor		
Local social resources	Good			